

**Thermoplastic Composite Manufacture Using  
Ara (*Ficus sp.*) Sawmill Sawdust**

**By**

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# **THERMOPLASTIC COMPOSITE MANUFACTURE USING ARA (*FICUS sp.*)**

## **SAWMILL SAWDUST**

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### **ABSTRACT**

Research for thermoplastic composite manufacture from Ara (*Ficus sp.*) has been done. *Ficus sp.* was selected as a main raw material that is found from Forest Reserve University of Technology MARA (UiTM) Pahang. Polypropylene was used as a binder between sawdust and used in the thermoplastic composite manufactured. *Ficus sp.* has a light yellow-brown in the sapwood. The sapwood is not differentiated from the heartwood. 5%, 10% and 15% sawdust has been chosen for this research. The tests that already done in the research were bending, tensile and the immersion test. As a result, 15% sawdust is more suitable. It refers to the result at higher bending, tensile and the immersion test. Therefore, as a result, details research about *Ficus sp.* should be carried out, which can increase more uses in wood industries.